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Refereed Publications

1. Radomski, J. T., **Piña, R. K.**, Packham, C., Telesco, C. M.; De Buizer, J. M., Fisher, R. S., Robinson, A. 2003, "Resolved Mid-Infrared Emission in the Narrow-Line Region of NGC 4151", *The Astrophysical Journal*, 587, pp. 117-122.
2. De Buizer, J. M., Radomski, J. T., **Piña, R. K.**, Telesco, C. M. 2002, "Mid-Infrared Imaging of NGC 6334 I", *The Astrophysical Journal*, 580, pp. 305-316.
3. Radomski, J. T., **Piña, R. K.**, Packham, C., Telesco, C. M., and Tadhunter, C. N., 2001, "High-Resolution Mid-Infrared Morphology of Cygnus A", *The Astrophysical Journal*, 566, pp. 675-681.
4. De Buizer, J. M., Walsh, A. J., **Piña, R. K.**, Phillips, C. J., and Telesco, C. M. 2002, "High-Resolution Mid-Infrared Imaging of G339.88-1.26", *The Astrophysical Journal*, 564, pp. 327-332.
5. De Buizer, J. M., Watson, A., Radomski, J. T., **Piña, R. K.**, and Telesco, C. M. 2002, "Mid-Infrared Detection of a Hot Molecular Core in G29.96-0.02", *The Astrophysical Journal*, 564, pp. L101-L104.
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9. Fisher, R. S., Telesco, C. M., **Piña, R. K.**, Knacke, R. F., Wyatt, M. C. 2000, "Detection of Extended Thermal Infrared Emission around the Vega-like Source HD 141569", *The Astrophysical Journal*, 532, pp. L141-L144.
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11. Wyatt, M. C., Dermott, S. F., Telesco, C. M., Fisher, R. S., Grogan, K., Holmes, E. K., and **Piña, R. K.** 1999, "How Observations of Circumstellar Disk Asymmetries Can Reveal Hidden Planets: Pericenter Glow and Its Application to the HR 4796 Disk", *The Astrophysical Journal*, 527, pp. 918-944.
12. **Piña, R. K.**, and Puetter, R. C. 1993, "Bayesian Image Reconstruction: The Pixon and Optimal Image Modeling", *Publications of the Astronomical Society of the Pacific*, 105, pp.630-637.
13. **Piña, R. K.**, Jones, B., Puetter, R. C., and Stein, W. A. 1992, "12 and 20 Micron Imaging of the Starburst Galaxy NGC 253", *The Astrophysical Journal*, 401, pp.L75-L78.

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15. Mariñas, N., Telesco, C. M., **Piña, R. K.**, Fisher, R. S., Wyatt, M. C. 2003, "Local Heating in the Galactic Center Western Arc", *The Astronomical Journal*, 125, pp. 1345-1351.
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18. Polomski, E. F., Telesco, C. M., **Piña, R. K.**; Schulz, B. 2002, "The Dusty Circumstellar Environments of Ae/Be Protoplanetary Disk Candidates", *The Astronomical Journal*, 124, pp. 2207-2223.
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23. Jayawardhana, R., Hartmann, L., Fazio, G., Fisher, R. S., Telesco, C. M., and **Piña, R. K.** 1999, "Mid-Infrared Imaging of the Young Binary Star Hen 3-600: Evidence for a Dust Disk around the Primary", *The Astrophysical Journal*, 520, pp.L41-L44.
24. Polomski, E. F., Telesco, C. M., **Piña, R. K.**, Fisher, R. S. 1999, "Complex Structure of η Carinae in the Mid-Infrared", *The Astronomical Journal*, 118, pp. 2369-2377.
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- OSSE via the Mean Field Annealing Pixon Technique”, *The Astrophysical Journal*, 484, pp.891-899.
29. Metcalf, T. R., Hudson, H. S., Kosugi, T., Puetter, R. C., and **Piña, R. K.** 1996, “Pixon-Based Multiresolution Image Reconstruction for Yohkoh’s Hard X-Ray Telescope”, *The Astrophysical Journal*, 466, pp.585-594.
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 35. Aspin, C., Puxley, P. J., Blanco, P. R., **Piña, R. K.**, Pickup, D. A., Paterson, M. J., Sylvester, J., Laird, D. C., Bridger, A., Daly, P. N., and Griffin, J. L. 1994, “Thermal Infrared Imaging of GGD27–IRS. The Active Pre-main Sequence Star Revealed”, *Astronomy and Astrophysics*, 292, #2, pp.L9-L12.
 36. Fomenkova, M. N., Jones, B., **Piña, R. K.**, Puetter, R. C., McFadden, L. A., Abney, F., and Gehrz, R. D. 1993, “Thermal-Infrared High-Resolution Imaging of Comet Austin”, *Icarus*, 106, pp.489-498.
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Non-Refereed Publications & Proceedings

38. **Piña, R. K.** and Shanks, J. G. 2003, “IDL-Based EO Testbed to Evaluate Narrow-Band and Hypertemporal Early Launch Detection Concepts”, in *Missile Defense Sensors Environment and Algorithms, Military Sensing Symposia*.
39. Telesco, C. M., Ciardi, D. R., French, J., Ftaclas, C., Hanna, K. T.; Hon, D. B., Hough, J. H., Julian, J., Julian, R., Kidger, M., Packham, C., **Piña, R. K.**, Varosi, F., Sellar, R. G. 2003, “CanariCam: a multimode mid-infrared camera for the Gran Telescopio CANARIAS”, in *Instrument Design and Performance for Optical/Infrared Ground-based Telescopes, SPIE Proceedings*, 4841, pp. 913-922.
40. Radomski, J. T., **Piña, R. K.**, Packham, C., Telesco, C. M., Fisher, R. S., and De Buizer, J. M. 2001, “High-Resolution Mid-Infrared Imaging of NGC 4151”, *American Astronomical Society Meeting*, 199, #50.03.
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 46. Mariñas, N., Telesco, C. M., **Piña, R. K.**, Fisher, R. S.; Wyatt, M. 2000, "Mid-Infrared Emitting Clumps in the Galactic Center Western Arc", *American Astronomical Society Meeting*, 196, #25.02.
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Miscellaneous

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88. **Piña, R. K.** 2003, "A Novel Focal Plane Sensor Concept for Improved Sub-Pixel Image Resolution", A DII-BAA Proposal Submitted to the National Reconnaissance Office Advanced Systems and Technology Directorate, pp. 1-10.
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